



Product Highlights

- Operating temperature
-50°C to +150°C
(-58°F to +302°F)
- Expandable tubular sleeve
- Excellent abrasion resistance
and cut-through
- Extremely flexible
- Self extinguishing
- Fluid resistant

Typical Applications

- Hoses
- Tubing and cables

FlexGuard® 2131 is a flexible, expandable sleeve that is both lightweight and rugged. Densely constructed of polyester, FlexGuard 2131 is specifically designed for the abrasion protection of automotive hoses, tubings and cables located in the engine compartment.

Our unique manufacturing process combines different diameters of monofilament into the braiding process, achieving maximum installed coverage, thus providing superior abrasion resistance.

Additionally, FlexGuard 2131 is particularly suited for use on hoses as the product conforms to tight bends without folding or bunching, providing an aesthetically pleasing finish.



Our manufacturing sites are
certified ISO 9001, IATF 16949,
or AS/EN 9100, ISO 14001
and ISO 45001 (Selected Sites)

Performance Data – FlexGuard® 2131

Property	Test Method	Result
Temperature Rating	240 hours at +175°C (+150°C rating)	Pass +150°C (+302°F)
Low Temperature Flexibility	BH100-016A	Pass -50°C (-58°F)
Flammability	FMVSS 302 D45 1333	Pass Self-extinguishing Type B
Cut-through Resistance	BS G 212	Excellent
Fluid Resistance	D47 1924	No visible degradation or alteration after being exposed to the following test cycles: <ul style="list-style-type: none"> • Immersion for 15s at 23°C, followed by a drying period of 24hrs at 150°C: motor oil, automatic transmission fluid, manual transmission oil. • Immersion for 48hrs at 70°C, followed by a drying period of 24hrs at 23°C: Urea of clean up Ad blue. • Immersion for 24hrs: <ul style="list-style-type: none"> – At 40°C, followed by a drying period of 4hrs at 23°C: for gazole, unloaded petrol 98, Std fuel C + 15% methanol, E85 bio ethanol. – At 70°C, followed by a drying period of 4hrs at 23°C, for windscreen washer. – At 118°C, by a drying period of 4hrs at 23°C, for engine coolant.

All numeric performance data shows average or typical values. Please consult your sales representative for product drawings, test reports and OEM approvals.

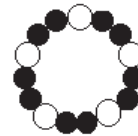
Standard Sizes

Size	Recommended Application Range (mm)	
	Min Ø	Max Ø
8	6	9
10	8	12
13	11	14
15	14	16
17	15	19
18	16	20
20	18	22
24	21	25
28	26	30
33	30	35
43	40	46
50	48	58

Note: Longitudinal shrinkage should be taken into account when utilizing expansion properties of the sleeve.

Availability

FlexGuard 2131 is available in a range of sizes and cut to your specification. Standard color is black. Please contact your sales representative for availability.



End view (enlarged diameter) of FlexGuard 2131 showing guard strands (larger) and support strands (smaller, black) in a typical configuration.